



RISING BOLLARD BARRIERS

GSB9000 Series

GateSet GSB9000 Series Hydraulic Rising Bollards are designed to protect sensitive areas that require high level of security. Cutting edge internal hydraulic power pack of GSB9000 provides silent and smooth operation with ease of installation and maintenance. The product is engineered to withstand high impact forces by destroying the front suspension system of the hostile vehicle. In cooperation with an accredited crash test laboratory, the product is pending to be tested against IWA14-1:2013 standards and expected to be awarded IWA14-1:2013, N2A Level Certification. With reinforced infrastructure and powerful hydraulic unit, GSB9000 Series is an ideal choice for high frequency heavy duty operation, achieving high level of security while maintaining an aesthetic look.

GSB9000 Datasheet v.2.0

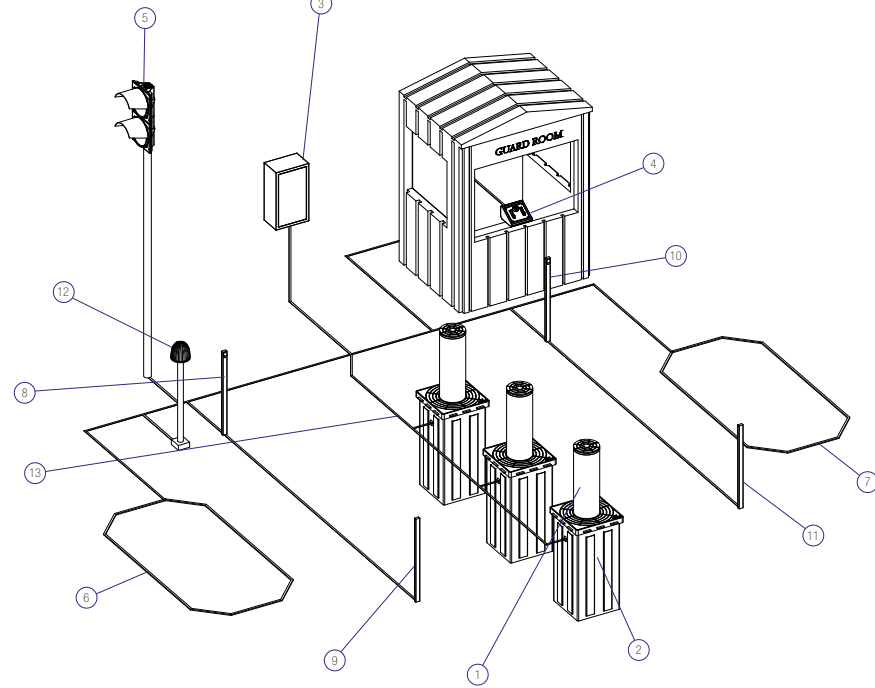
Usage Areas

- Access Control*
- Military Sites
 - Government Offices
 - Police Headquarters
 - Research Centers
 - Embassies
 - Airports
 - Industrial Areas
 - Sensitive Sites (Subject to Ram Attacks)

Featured Characteristics

- Cutting Edge* State-of-the-art **internal hydraulic** power pack design with maximum reliability
- Efficient* **Ease of maintenance and installation** combined with **smooth and silent operation**, thanks to internal hydraulics and modular case design
- High Impact Resistance* GSB9000 Series Rising Bollards are designed by using the cutting-edge manufacturing computer technology to meet **K12 level of IWA14-1:2013** standards. Computer aided element tests have proved that GSB9000 Series withstands an impact force of **7,500 kg @ 80 km/h**.
- Advanced* Schneider PLC and top quality electronics, providing simultaneous and synchronized operation of **up to 30 bollards** with a single electronic control cabinet
- Heavy Duty* Suitable for **intense usage** at high frequency access control points, supporting **5,000+ movements** in a consecutive fashion, a total 10,000+ movement per day

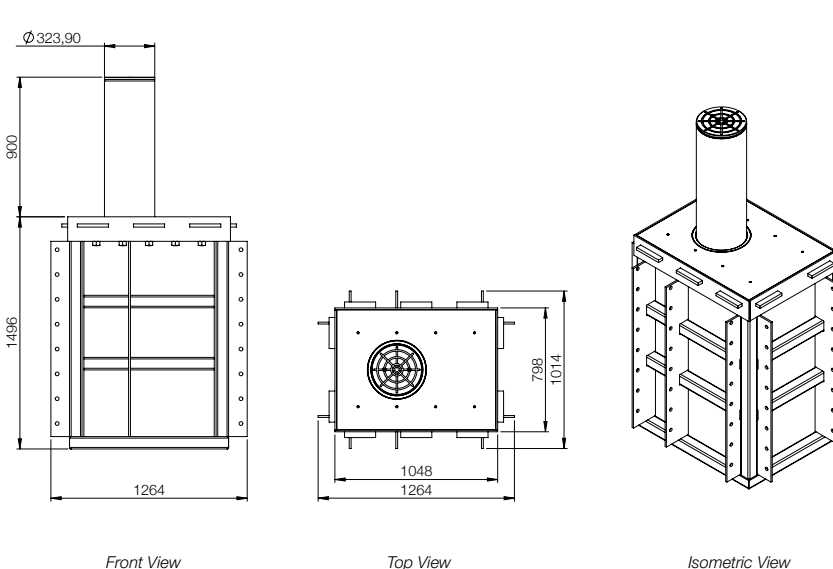
System Components and Accessories



- Main Components**
- Rising Bollard Core Obstacle
 - Underground Case
 - Electronic Control Cabinet
 - Control Keyboard (optional)
- Optional Accessories**
- Traffic Lights
 - Front Loop Detector
 - Rear Loop Detector
 - Front Photocell Transmitter
 - Front Photocell Receiver
 - Rear Photocell Transmitter
 - Rear Photocell Receiver
 - Flashing Warning Light
- Connections**
- Data Connection Cables

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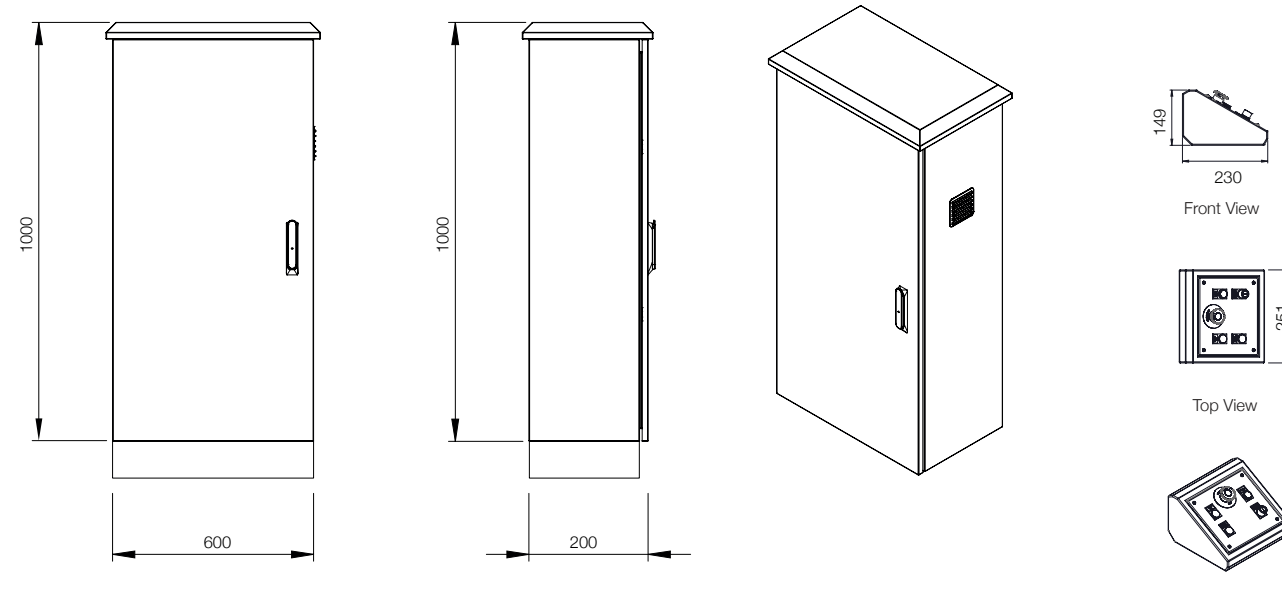
Drawings and Dimensions



REMARKS

- a- Obstacle Height:
GSB9090: 900, GSB9100: 1000, GSB9110: 1100
- b- Underground Case Depth:
GSB9090: 1412, GSB9100: 1512, GSB9110: 1612

Cabinet & Keyboard



* Above cabinet measurements are for an outdoor cabinet for standard three group configuration. Subject to change depending on design or project needs without prior notice

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Technical Specifications

DRIVE	Internally Incorporated Hydraulic
DRIVE POWER	50 Bar Average, 80 Bar Maximum
CYLINDER DIAMETER	323.9 mm
OBSTACLE HEIGHT	GSB9090: 900mm, GSB9100: 1000mm, GSB9110: 1100 mm
BOLLARD DIAMETER	Classified
MATERIAL	ST52 Steel Core, Finished by 3 mm Stainless Steel Sleeve
OUTER CASE DIMENSIONS	GSB9090:1100x850x1412 mm, GSB9100:1100x850x1512 mm, GSB9110:1100x850x1612 mm
BEARING / MANHOLE	30 mm Thickness Steel Bearing, 40 mm Steel Top Plate and 6 mm Top Cover
VISIBILITY ENHANCEMENT	Integrated LED Stripe
RIISING / FALLING TIME	7 - 8 Seconds (Adjustable)
EMERGENCY OPERATION	2 Seconds (Optional with Emergency Operation Kit)
POWER SUPPLY	220 V AC / 50-60 Hz. 2.2kW
PROTECTION CLASS	IP 67
CONTROL PANEL	Independent Controller Box for Simultaneous Operation of Grouped Bollards
IMPACT RESISTANCE	Schneider SR2A101BD PLC controller with Display
OPERATION TEMPERATURES	7,500 kg at 80 km/h (IWA14-1:2013, N2A certification pending)
WORKING FREQUENCY	- 30 °C / + 65 °C
POSITION DETECTION	Heavy Duty with 5000 Movement/Day
MANUAL OPERATION	2x Waterproof In-Core Proximity Sensor for Up and Down Positions
OPERATION CONTROL	Easy Release System with Personalized Key
EASE OF MAINTENANCE	Compatible with any kind of Standard Interface, Button (standard)
HYDRAULIC OIL	Remote Control, RFID - Proximity Card Reader, LR etc. (optional)
SAFETY EQUIPMENT	Manometer Connection Access and Operation Pressure Access from Top of the Case (No need to take the case out from ground)
ACCESSORIES	Mobil Atf 220 (standard)
CERTIFICATION	Emergency Stop Button (standard) Photocell, Loop Sensor (optional)
WARRANTY	Traffic Lights, Flashing Light, Siren, Warning Sign, Drainage Pump (optional)
	ISO 9001:2015, CE
	2 Years



ACCESS CONTROL SOLUTIONS
TURNSTILES ■ BARRIERS ■ ID SYSTEMS

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